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**PR-52** Six Meter Handheld Transceiver

**PR-222** 1.35 Meter Handheld Transceiver

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**USER'S MANUAL**

**PRYME**  
Radio Products

THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES.  
OPERATION IS SUBJECT TO THE CONDITION THAT THIS DEVICE  
DOES NOT CAUSE HARMFUL INTERFERENCE.

NOTE: THE MANUFACTURER IS NOT RESPONSIBLE FOR ANY RADIO OR TV INTERFERENCE  
CAUSED BY UNAUTHORIZED MODIFICATIONS TO THIS EQUIPMENT. SUCH MODIFICATIONS  
COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT.

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## **PREPARATION**

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### **1. PREPARATION**

#### **1-1. Cautions**

1. Keep the transceiver out of high temperature, humidity, and dust.
2. Do not disassemble the radio and tamper with the cores and trimmers. The PR-52/222 is produced under strict control and is fully adjusted.
3. Do not charge the battery pack in an area where the temperature is less than +5°C (about 40°F).
4. The battery/supply voltage must be between 5.0 and 15.0 Volts DC to avoid damaging the transceiver.
5. Never charge the battery pack with a charger other than the one supplied with the unit, or another factory approved charger.
6. If you operate the unit using an external base station antenna, please follow all

of the cautions and warnings provided with the antenna.

7. Do not transmit on high output power for extended periods of time. The radio can overheat.
8. Do not place the transceiver near any appliance that generates heat, or expose it to long periods of direct sunlight.
9. The included rechargeable NiCad battery pack can be a hazard to the environment. It must be recycled or disposed of safely at the end of the battery's life.

THIS EQUIPMENT COMPLIES WITH PART 15 OF THE FCC RULES. OPERATION IS SUBJECT TO THE FOLLOWING TWO CONDITIONS: (1) THIS EQUIPMENT MAY NOT CAUSE HARMFUL INTERFERENCE, AND (2) THIS EQUIPMENT MUST ACCEPT ANY INTERFERENCE RECEIVED, INCLUDING INTERFERENCE THAT CAUSES UNDESIRED OPERATION.

## PREPARATION

### 1-2. Controls and Connections



## PREPARATION

### (1) VOL/SW

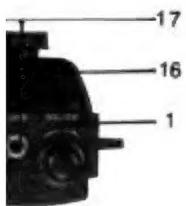
This knob is used to switch the radio on and off and to control the volume. Rotate the knob clockwise to turn the power on and increase the volume. To turn the volume down and turn the radio off rotate the knob counterclockwise.

### (2) SPKR

This mini-audio plug is used to connect the transceiver to an external speaker or to the speaker of any external speaker microphone or headset. The radio's internal speaker is disabled when a speaker is connected to this jack.

### (3) MIC/CHG

An external microphone, or a cable for cloning/PC programming can be connected to this jack. It is also possible to trickle charge a battery pack while it is attached to the radio by plugging the supplied wall charger into this jack.



### (4) ANTENNA JACK

A standard BNC antenna connector is used for the PR-222. For the PR-52 a TNC-style jack is employed to help relieve strain.

### (5) BUSY/TX

This indicator shows the transmit/receive state of the radio. When the transmitter is keyed the LED lights up red. As the battery becomes weaker, the light turns a darker red, recommending charging. The LED lights up green when an incoming signal is received.

### (6) FUNC

Special functions of the transceiver are accessed by pressing this button at the same time as other buttons on the unit.

### (7) PTT BUTTON

To transmit, press this button and speak into the microphone located on the front on the transceiver. When using an external microphone press the PTT button on the remote mic to transmit.

## **PREPARATION**

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**(8) SQL OFF**

When this button is pressed once it opens the unit's squelch, allowing static and/or very weak signals to be heard. If the button is pressed again the squelch function is once again activated, quieting the transceiver.

**(9) UP/LOCK**

Pressing the button increases the radio's operating frequency/operating channel number.

**(10) DOWN/LAMP**

Pressing this button decreases the radio's operating frequency/operating channel number.

**(11) CALL/M.S**

Press this button to access the radio's CALL channel.

**(12) MR/MW**

This key is used to toggle between the radio's VFO and Memory modes.

**(13) SPEAKER**

This is the radio's built-in speaker.

**(14) MICROPHONE**

The radio's internal electrostatic microphone is located on the front left-hand side of the unit. Speak into the microphone in a normal tone of voice with the PTT key depressed.

**(15) LOCK BUTTON**

Releases the battery pack.

**(16) BATTERY PACK**

The supplied battery is a 12 Volt, 600 mAH Nickel Cadmium pack.

**(17) BELT CLIP**

The included metal belt clip attaches to the back of the battery pack with two screws.

**(18) JACK CAP**

Use this supplied rubber gasket to cover the external speaker and microphone jacks when they are not in use.

## PREPARATION

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### 1-3. Getting Ready For Use

1. Charge the supplied battery pack for about 14 hours (using the supplied chager) prior to the first use.
2. Install the included antenna and battery pack.
3. Turn the VOL/SW switch on and set the volume control to a comfortable listening level. (If there is no channel activity, use the {SQL} key to disable the squelch so the volume can be set properly.)
4. Set the desired operating channel.
5. Press the PTT key to transmit and release it to receive.

### 1-4. Manual Conventions

Many of the PR-52/222 buttons have multiple functions, which vary depending on what mode the radio is in or in what combination the buttons are pressed.

To make the manual easier to read, we refer to each of the keys by the name of the main function that is executed by the key (i.e. the function that is executed when the key is pressed by itself in the standard operating mode).

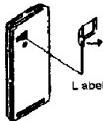
Some functions are accessed by holding down the (FUNC) key and then pressing another key simultaneously. In this manual this is indicated by (FUNC)+(KEY). Other functions are accessed by pressing several keys in sequence. In this manual this is indicated by (KEY), (KEY), (KEY).

## PREPARATION

### 1-5. Battery Pack Removal, Attachment, and Cautions

#### 1. Attachment

Peel off the protective label  
on the battery's "+" terminal.



2. Press the battery pack  
against the bottom of  
the transceiver as shown in  
the diagram. Then press  
the battery  
lock button  
to lock the  
battery pack  
in place



#### 3. Removal

To release the battery pack, press the lock button located on the  
bottom of the transceiver in the direction of the arrow.



#### Cautions on Charging the Battery Pack

1. NEVER short circuit the output terminals of the battery packs with a wire or other conductive object.
2. NEVER use wires to attach the output terminals of the battery pack to the input terminals of the radio.
3. Do not allow the battery pack to come in contact with water or any other liquid. If the pack does become wet allow it to dry thoroughly before use.
4. Do not expose the battery pack to excessive heat or flames.
5. NEVER disassemble or modify the battery pack.
6. NEVER apply a charging voltage to the pack than is greater than the specified charge voltage of the battery pack.
7. NEVER charge the battery pack with a charger other than the one included with the radio, or another factory approved charger.
8. Do not overcharge the battery pack.

## **BASIC OPERATIONS**

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### **2. Basic Operations**

#### **2-1. Turning the Power On/Off**

To turn the radio on, simply rotate the (VOL/SW) key clockwise until it clicks. Rotate the knob counterclockwise until it clicks to turn the transceiver off.

#### **2-2. Adjusting The Volume**

With the transceiver turned on, rotate the (VOL/SW) knob clockwise to increase the speaker volume or counterclockwise to decrease it. Set the volume to a comfortable level. If there is no channel activity, use the (SQL) key to disable the squelch so the volume can be set properly.

#### **2-3. Using the Squelch Monitor**

In some situations it is beneficial to temporarily disable the squelch, such as when listening to a very weak signal or setting the volume level with no signal being received. To disable the squelch press the (SQL OFF) key once. To enable the squelch again simply press the (SQL OFF) key.

#### **2.4 Selecting an Operating Frequency**

- Directly Entering a Frequency on the Keypad
  1. Make sure that the radio is in VFO mode (with no "M" showing on the display). If needed, press the (MR) key to enter VFO mode.
  2. Enter the desired operating frequency using the keypad. Start with the 100 MHz digit and end with the 10 kHz digit [i.e. (2), (2), (4), (5), (0) OR (0), (5), (2), (5), (2)].
  3. Press the (ENT) key.
- Using the (UP) / (DOWN) Keys
  1. Make sure that the radio is in VFO mode (with no "M" showing on the display). If needed, press the (MR) key to enter VFO mode.

## **PREPARATION**

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2. Press the (UP) key to increase the current operating frequency and the (DOWN) key to decrease it.
  3. The factory default frequency step is 20 kHz. This may need to be changed to access some user frequencies.
- Using the (MHz▲) / (MHz▼) Keys
    1. For faster frequency changes the (F/CH) and (ENT) keys may be used to raise or lower the radio's operating frequency in 1 MHz increments.
    2. Make sure that the radio is in VFO mode (with no "M" showing on the display). If needed, press the (MR) key to enter VFO mode.
    3. Press (FUNC)+(F/CH) to lower the operating frequency by 1 MHz or (FUNC)+(ENT) to increase the radio's operating frequency by 1 MHz.

### **2.5 Setting a Frequency Step**

1. Press (FUNC)+(SQL OFF) to display the current frequency step. (Default: 20 kHz)

2. Use the (UP)/(DOWN) keys to change the value. Steps of 5, 10, 12.5, 20, 25, 50, and 100 kHz can be selected.
3. Press (FUNC)+(SQL OFF) to save the setting.

### **2.6 Using the Frequency Lock**

Sometimes you may wish to lock the PR-52/222's keypad so that you do not accidentally change settings.

1. Press (FUNC)+(UP).
2. The letters "FL" show on the display to indicate the Frequency Lock is activated.
3. Repeat step 1 to exit the Frequency Lock function.

### **2-7. Transmitting**

Before transmitting remember to listen momentarily to ensure that the frequency is not in use.

1. Select an operating frequency as in 2-4 or a memory channel as it 4-2.
2. Press the (PTT) button. Speak slowly and clearly into the microphone, holding the radio 6-9 inches from your mouth.
3. The (BUSY/TX) LED lights red when the (PTT) is pressed and remains on during transmission.

## **PREPARATION**

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### **2-8. Setting the Transmit Power Level**

The PR-52 and PR-222 have three power levels, which vary according to the operating voltage. When operated from 12 VDC the power levels are 1, 2, and 5 watts out. When operated from 7.2 VDC the power levels are 1, 2, and 2 watts.

1. Press (PTT)+(UP) or (PTT)+(DOWN) to change the power setting.
2. Hi power is represented on the display by a long bar, medium power by a medium bar, and low power by a short bar.

### **2-9. Using the Display Backlight**

For night time operation the transceiver features a LCD backlight with both a momentary and a constant mode.

1. Momentary Light: To access this feature press (FUNC)+(DOWN) once. The light will remain on for approximately 3 seconds.
2. Constant Light: Press (FUNC)+(DOWN) twice. The light will remain on. To shut it off press (FUNC)+(DOWN) again. NOTE: The PR-52/PR-222 rechargeable NiCad battery will be drained much more quickly than normal in the constant lamp mode.

### **2-10. Resetting the PR-52/PR-222**

Should it ever be necessary to perform a complete microprocessor reset on the transceiver follow the instructions below. NOTE: Perform a reset will erase all of the data currently stored in the radio's memory and return it to the factory defaults.

1. Turn the radio off.
2. Hold down (FUNC)+(SQL OFF) while turning the radio on.
3. Release both keys.

## **OPERATING THROUGH REPEATERS**

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### **3. Operating Through Repeaters**

In order to operate using a repeater station you will need to know four pieces of information about the repeater: the repeater's output frequency, the direction of the repeater's offset, the offset frequency, and the frequency of any CTCSS tone required. This information is commonly published in any one of several Repeater Guidebooks available from your local ham radio store.

To operate using a repeater, first begin by selecting the repeater's output frequency as the transceiver's operating frequency using the procedure described in section 2-4 of this manual.

#### **3-1. Setting the Offset Direction**

Each repeater station has a separate receive and transmit frequency. If the repeater's transmit frequency is lower than its receive frequency the repeater is said to have a negative offset. If the transmit frequency is higher than the receive frequency the offset is said to be a positive one.

1. To select the proper offset direction press the (SEL) key four times..

2. The offset frequency will be displayed (the factory default for this value is 01.60 for the PR-222 and 00.50 for the PR-52).
3. Press the (CHG) key. This will change the offset to positive. A "+" sign appears on the display.
4. If the (CHG) key is pressed again it will change the offset to a negative one. A "–" will be displayed on the screen.
5. Pressing the (CHG) key a third time will return the radio to simplex operation.
6. After you have entered the proper offset direction press the (SEL) key three times to save the setting.

#### **3-2. Changing the Offset Frequency**

The default frequency offset is 1.60 MHz for the PR-222 and 0.50 MHz for the PR-52. Some repeaters require offsets different than these values.

1. Press (FUNC)+(COPY). The current offset frequency is displayed.
2. Use the (UP) or (DOWN) key to change the offset to the proper value.
3. Press (FUNC)+(COPY) to save the settings.

## **OPERATING THROUGH REPEATERS**

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### **3-3. Reversing the TX/RX Frequencies**

The reverse function is a quick way to check whether or not you can hear another station directly, without the use of a repeater. By using the reverse function you can listen to the repeater's input frequency while the other station is transmitting. If you can hear the other station, then you know it is possible to move the conversation to a simplex frequency to avoid tying up a repeater.

NOTE: You must both be in VFO mode, and be operating with a repeater shift turned on, in order to use this function! It will not work in MEMORY or CALL channel modes.

1. Press the (CHG) key. "DUP" is displayed on the screen. The radios receive/transmit frequencies are reversed.
2. To return to normal operation press the (CHG) key again.

### **3-4. Setting the CTCSS Tone**

The Continuous Tone Coded Squelch System (CTCSS) functions by encoding a low frequency (sub-audible) tone on a transmitted carrier in order to open a receiver's squelch. Most repeater systems require that all of the users transmit a tone of a certain frequency in order to gain access to the repeater.

The PR-52 and PR-222 include both CTCSS encode and decode. To use CTCSS you must set the tone frequency and turn on either the encode or the decode functions.

1. To set the CTCSS tone press the (SEL) key twice to set the transmitted (encode) tone or three times to set the decoded tone. The current tone frequency will be displayed. (Factory default = 88.5 Hz.)
2. Use the (UP) or (DOWN) key to change this value to the correct tone.
3. Press the (SEL) key twice to save the setting.

### **3-5. Using CTCSS Encode / Decode**

Turning on the CTCSS encode function instructs the radio to encode a CTCSS tone on all of transmissions made. Turning on the decode (sometimes called "Tone Squelch") function will mute the radio's receiver for any signal, except for a signal that is encoding the proper CTCSS tone. This is useful for selective calling.

1. To turn on the encode or the decode function press the (SEL) key once. The current CTCSS tone frequency is displayed as per step 3-4.
2. Press the (CHG) key once. The letter "T" is displayed on the screen. This signifies tone encode.
3. Press the (CHG) key again and the letters "TSQ" will be shown. This represents the tone decode function.
4. Pressing the (CHG) key again will shut off both the encode and decode functions. In this way it is possible to toggle through the encode/decode functions.
5. Press the (SEL) key twice to save the settings.

## **OPERATING THROUGH REPEATERS**

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### **3-3. Reversing the TX/RX Frequencies**

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1. Press the (CHG) key. "DUP" is displayed on the screen. The radios receive/transmit frequencies are reversed.
2. To return to normal operation press the (CHG) key again.

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2. Use the (UP) or (DOWN) key to change this value to the correct tone.
3. Press the (SEL) key twice to save the setting.

### **3-5. Using CTCSS Encode / Decode**

Turning on the CTCSS encode function instructs the radio to encode a CTCSS tone on all of transmissions made. Turning on the decode (sometimes called "Tone Squelch") function will mute the radio's receiver for any signal, except for a signal that is encoding the proper CTCSS tone. This is useful for selective calling.

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2. Press the (CHG) key once. The letter "T" is displayed on the screen. This signifies tone encode.
3. Press the (CHG) key again and the letters "TSQ" will be shown. This represents the tone decode function.
4. Pressing the (CHG) key again will shut off both the encode and decode functions. In this way it is possible to toggle through the encode/decode functions.
5. Press the (SEL) key twice to save the settings.

## **PREPARATION**

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### **4-4. Modifying a Memory Channel**

Any stored memory can be changed using the following procedure.

1. Ensure that the radio is in the memory mode.
2. Press [FUNC]+[MR]. The "M" indicating memory mode on the display will flash.
3. You may now make any changes to the memory channel you desire, including changing the frequency, offset, or CTCSS tone.
4. Press [FUNC]+[MR] to save the data.

3. Use the procedure in section 2-4 to select an operating frequency.
4. If needed, use the procedure in section 3-1 and 3-2 to select the correct repeater offset.
5. If needed, use the procedure in section 3-4 and 3-5 to set the correct CTCSS mode and tone.
6. Press the [CALL] key to save the current settings.

### **4-5. Setting the CALL Channel**

The CALL channel is an extra memory which is provided to be used as a priority memory. The CALL channel can be accessed quickly, at any time, just by pressing the [CALL] key.

1. To program the CALL channel, first press the [CALL] key to display the current programmed frequency. A "C" will be displayed on the left of the LCD signifying CALL channel mode.
2. Press [FUNC]+[MR]. The "C" will begin flashing.

## PREPARATION

### **5. Scan Functions**

The scan functions of the PR-52/222 enable the user to monitor several frequencies or memory channels for activity. The radio checks each frequency in a preprogrammed list, and stops scanning if it finds activity so that you can hear the transmission. Whenever a scan mode is active, the direction of the scan can be changed by pressing the [UP] or the [DOWN] key.

#### **5-1. 1 MHz Scan**

This mode is used to locate activity over a 1 MHz range. The exact range will be determined by the beginning frequency you program. For instance, beginning on a frequency of 52.XXX MHz will cause the radio to scan 52.00 – 52.995 MHz,

1. Set the starting frequency for the scan using the procedure in section 2-4.
2. To begin scanning press [FUNC]+[SEL].
3. The radio will scan the current 1 MHz range until it finds a busy frequency. It will stop scanning on busy frequencies and resume scanning again when the activity has ceased.

4. You can stop the scan at any time by pressing the [PTT] key.

#### **5-2. Memory Scan**

In memory scan mode the radio will quickly cycle through all programmed memory channels to find activity. If a busy channel is located, the radio will stop on that channel until the activity ceases. It will skip empty memory channels.. If all of the memory channels are empty, the PR-52/222 beeps and does not scan.

1. Select the memory mode by using the [MR] key.
2. Press [FUNC]+[CALL] to begin scanning.
3. You can stop the scan at any time by pressing the [PTT] key.

## **DTMF FUNCTIONS**

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### **6. DTMF Functions**

DTMF tones, sometimes called "Touch Tones" can be used to access special repeater functions (such as telephone patch), control a remote base or crossband link, or to selectively call an individual or group.

#### **6-1. Manually Transmitting DTMF Tones**

To access special repeater functions, such as autopatch, or to control a remote base or crossband link, it is sometimes useful to be able manually transmit a series of DTMF tones.

1. First select the VFO frequency or memory channel that you want to send the DTMF tones on.
2. Next, press and hold the [PTT] key.
3. Press the keypad numbers of the tones you want to send, while you are holding down the [PTT]. The [STEP], [SEL], [CHG], and [COPY] keys correspond to DTMF "A", "B", "C", and "D" respectively.
4. When done sending tones, simply release the [PTT] key.

#### **6-2. DTMF Paging Functions**

##### **(a) Setting the Call ID**

1. Press the [SEL] key five times. The letter "000" is displayed on the screen. This is the current call ID.
2. Enter a new call ID using the keypad. It must be 3 digits long.
3. Press the [CHG] key to select the paging function. The letter "PAG" is displayed on the screen.

##### **(b) Setting the Personal ID and Group ID**

1. Press the [FUNC]+[STEP] key.

2. Press the [SQL OFF] key three times. The LCD shows the current Personal ID.
3. Enter a personal ID using the keypad. It must be 3 digits long.
4. Press the [SQL OFF] key again, the current group ID is shown.
5. Enter a new group ID using the keypad. It must be 3 digits long.

##### **(c) Paging Operation**

1. In paging mode, press the [PTT] key to send the call ID and personal ID.
2. When a paging call is received the radio will beep and the LCD will show the caller's ID code.

#### **6-3. Using DTMF Coded Squelch**

1. Press the [SEL] key five times. The current call ID is displayed.
2. Press the [CHG] key twice to select the paging function. The letter "CSQ" is displayed on the screen.

#### **6-4. Using the ANI Function**

1. Press the [SEL] key five times. The current call ID is displayed.
2. Press the [CHG] key three times to select the ANI function. The letter ":" is displayed on the screen.
3. This mode allows a caller's DTMF ID to be displayed on the radio's LCD.

## ADDITIONAL FUNCTIONS

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### 7. Additional Functions

#### 7-1. Using the 1750 Tone Burst

For European models, this function allows you to transmit a tone burst signal to access repeaters. To set up the radio for repeater use see section 3.

#### 7-2. Setting the Battery Save

The battery save function allows you to extend the operating time of the PR-52/222..

This function actually turns off the radio's RF Receiver section for a programmable period of time to save power, and then turns it on to check for a signal. If no signal is detected, the receiver section is once again turned off. If a signal is detected the battery save is disabled until 2 seconds after the signal disappears.

The power save function does not work when the scan mode is enabled.

1. Press (FUNC)+(STEP). The current battery save setting is displayed.
2. Use the (UP) and (DOWN) keys to modify the setting. The number shown is the number of seconds that the receiver stage is disabled in between the time the radio checks the selected frequency for activity.
3. Press (FUNC)+(STEP) to save the setting.

#### 7-3. Using the Channel Display Mode

Instead of displaying the current operating frequency, the PR-52/222 show the operating channel only when used in memory mode. In this mode only the Busy Lock, PTT Lock, and Channel Lock Out functions will be available. All other functions will be disabled.

1. Press the (MHz ▲) key. The radio is now set to channel mode. It will display only programmed memory channels. All empty memories will be skipped.
2. To return to normal operation simply press the (MHz ▲) key again.

#### 7-4A. Cloning Mode

The PR-52/222 is capable of being "cloned" by another PR-52/222 that has already been programmed, using an optional cloning cable.

1. Turn on the radio that will receive the cloning while holding down (FUNC)+(DOWN). The letters "COPY (+)" appear on the display. Press the (CALL) key. The display changes to "COPY (-)". This is the cloning reception mode.
2. Turn on the source radio while pressing (FUNC)+(DOWN). The display shows "COPY (+)". This is the cloning transmission mode.

## ADDITIONAL FUNCTIONS

3. Connect the transceivers using the optional cloning cable.
4. Press the (MR) key on the source unit. A tone will sound.
5. Press the (MR) key on the receiving unit. The tone will stop. When the LCD on the receiving unit returns to channel mode, it means that the cloning has finished.
6. Turn both units off and back on before continuing to use them.

### **7-4B. PC Programming Mode**

The PR-52/222 is capable of being fully programmed using a PC and optional software/cable kit. To use this function follow the instructions included with the software.

### **7-5. Turning Keypad Beep On/Off**

You can turn the keypad beep on or off to suit your preferences.

1. Press (FUNC)+(CHG). The keypad beep is turned off.
2. Press (FUNC)+(CHG) again to toggle the beep on.

### **7-6. Low Battery Warning**

The PR-52/222 have an automatic low battery warning. When the battery is near the end of its discharge cycle,

the unit will emit a low beep tone to warn the user. Every five seconds this beep will sound again.

This function is designed from the factory to work with the high power battery pack (12 volts). If the unit is operated with any other voltage of pack, simply reprogram the unit as follows:

1. Press [FUNC]+[STEP]. Release both keys and press [SQL OFF].
2. The current setting (12V) is displayed. A bar graph on the screen also shows the battery's current charge level.
3. Use the [UP]/[DOWN] keys to change the setting to either 12V, 9V, or 7.2V as needed.
4. Press [FUNC]+[STEP] to return to VFO mode.

### **7-7. Adjusting the Squelch Level**

The squelch level of the PR-52/222 is menu driven. To adjust the squelch to a different setting than the default follow this procedure:

1. Press [FUNC]+[STEP].
2. Press the [CHG] key twice.
3. The LCD displays the current squelch level from 1-8. (The factory default is "1".)
4. Use the [UP] and [DOWN] keys to adjust the setting. Each level is 3dB higher than the previous.
5. Press [FUNC]+[STEP] to return to normal operation.

## SPECIFICATIONS

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### 8. Specifications

PR-52 Six Meter Handheld

PR-222 1.35 Meter Handheld

#### GENERAL SPECIFICATIONS:

Dimensions: 4.25" x 2.0" x 0.75" (H/W/D without battery)

Modulation Type: F3

Microphone Impedance: 2K ohms

Speaker Impedance: 8 ohms

Input Voltage: 5.0-16.0 volts DC

Nominal Voltage: 7.2 volts DC

Current Draw (13.8 volts):

High Power: approx. 950 mA

Medium Power: approx. 650 mA

Low Power: approx. 400 mA

Stand By: approx. 25 mA

Power Save: varies by setting

Current Draw (7.2 volts):

High Power: approx. 650 mA

Medium Power: approx. 525 mA

Low Power: approx. 400 mA

Stand By: approx. 25 mA

Power Save: varies by setting

Operating Temperature: -10°C to +60°C

Frequency Stability: ±10 PPM

#### RECEIVER SPECIFICATIONS:

Frequency Range:

PR-52: 40 - 54 MHz

PR-222: 216-228 MHz

Receiving System: Double-conversion super heterodyne

Intermediate Frequency:

1st: 21.4 MHz

2nd: 455 kHz

Sensitivity (12db SINAD): 0.16 uV

Channel Spacing: 12.5 or 25 kHz

Audio Output Power: 300 mW 10% distortion at 8 ohms

#### TRANSMITTER SPECIFICATIONS:

Frequency Range:

PR-52: 50 - 54 MHz

PR-222: 222-225 MHz

RF Output Power (13.8 volts):

0.5 / 2.5 / 5 watts (low / medium / high)

RF Output Power (7.2 volts):

0.5 / 1 / 5 watts (low / medium / high)

Modulation Method: Voltage-variable reactance

Max. Deviation: ±5 kHz

Microphone: Built in electret condenser

Spurious Emissions: More than 60 dB below carrier

Burst Tone: 1750 kHz

SPECIFICATIONS GUARANTEED FOR AMATEUR BANDS ONLY.

## LIMITED WARRANTY

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### 9. Limited Warranty

PREMIER Communications Corporation warrants this product against defects in materials or workmanship as follows:

For the first year from the date of purchase, PREMIER Communications will repair or replace the unit, at our option, without charge for parts or labor. After the period of one year the product owner must pay all parts and labor charges.

The limited warranty is extended only to the original purchaser and is valid only to consumers in the United States and Canada. It does not cover damage or failure caused by or attributable to Acts of God, abuse, misuse, improper or abnormal usage, faulty installation, improper maintenance, lightning, or other incidences of excessive voltage, or any repairs or tampering by other than by a PREMIER authorized repair facility. It does not cover replacement of batteries or other consumable parts, transportation costs, or damage in transit. This warranty will become void if the serial number or model number identification has been wholly or partially removed or erased. Repair or replacement under the terms of this warranty does not extend the terms of this warranty. This warranty can only be modified by an officer of PREMIER Communications, and then only in writing.

Should this product prove defective in workmanship or

material, the consumer's sole remedies shall be such repair or replacement as provided by the terms of this warranty. Under no circumstances shall PREMIER Communications be liable for any loss or damage, direct, consequential, or incidental, arising out of the use of or inability to use this product. Some states do not allow limitations on how long an implied warranty lasts or the exclusions or limitations of incidental or consequential damages, so the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights. You may also have other rights, which vary, from state to state.

To obtain warranty service, call PREMIER Communications at (909) 869-5711 or e-mail [premier@adi-radio.com](mailto:premier@adi-radio.com). When returning a unit for warranty service, please include a copy of your sales receipt, a brief description of the symptoms, your name, address, phone number, e-mail address, and any special shipping instructions. You must also include the original copy of this form when returning your radio for warranty service.

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